

IHM06-1B5P0VW2G

IMM

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	part no.
IHM06-1B5P0VW2G	1104484

Other models and accessories → www.sick.com/IMM

Illustration may differ



Detailed technical data

Features

i catures	
Housing	Cylindrical
Housing	Extremely short model
Diameter	Ø 6.5 mm
Sensing range S _n	1.5 mm
Safe sensing range S _a	1.215 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Visual adjustment indicator

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	$\leq 2 V^{2}$
Time delay before availability	≤ 50 ms
Hysteresis	1 % 10 %

 $^{^{1)}}$ Of V_S .

 $^{^{2)}}$ With Ia = 200 mA.

 $^{^{\}rm 3)}$ Supply voltage U_{B} and constant ambient temperature Ta.

Reproducibility	≤ 2 % ³⁾
Temperature drift (of S _r)	≤ 10 %
EMC	EN 60947-5-2
Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm ²
Cable diameter	Ø 2.9 mm
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, LCP
Housing length	16 mm
UL File No.	NRKH.E348498

 $^{^{1)}}$ Of V_{S} .

Safety-related parameters

MTTF _D	1,592 years
DC _{avg}	0 %

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.75
Aluminum (AI)	Approx. 0.5
Copper (Cu)	Approx. 0.43
Brass (Br)	Approx. 0.54

Installation note

Remark	Associated graphic see "Installation"
В	6 mm
C	6.5 mm
D	4.5 mm
F	12 mm

Certificates

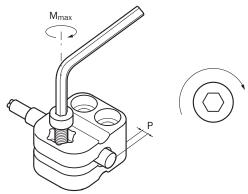
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓

²⁾ With Ia = 200 mA.

 $^{^{\}rm 3)}$ Supply voltage ${\rm U_B}$ and constant ambient temperature Ta.

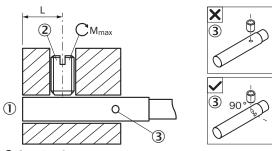
IO-Link certificate	✓
Classifications	
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note Mounting using BEF-KH-M06 bracket



Sensor type	Mounting adapter	Overrun (P)	Max. tightening torque (M _{max})
IHM06-1B5***** IHM06-02B***** IHM06-03B*****	BEF-KH-M06, part no. 2101067	≥ 0 mm	≤ 0.6 Nm

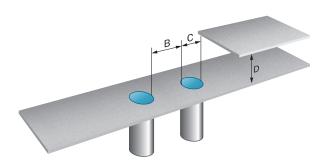
Installation note Fixing with setscrew

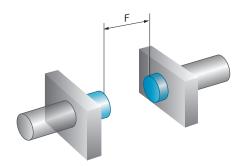


- ① Sensing face
- ② Recommended setscrew: M3, flat point
- ③ Display LED

Sensor type	Mounting area (L)	Max. tightening torque (M_{max})
IHM06-*****G	6 mm 11 mm	≤ 0.4 Nm
IHM06-*****T0G	6 mm 21 mm	≤ 0.4 Nm
IHM06-*****K	6 mm 21 mm	≤ 0.4 Nm
IHM06-****T0K	6 mm 32 mm	≤ 0.4 Nm
IHM06-*****	6 mm 32 mm	≤ 0.4 Nm
IHM06-*****T0S	6 mm 42 mm	≤ 0.4 Nm

Installation note Flush installation

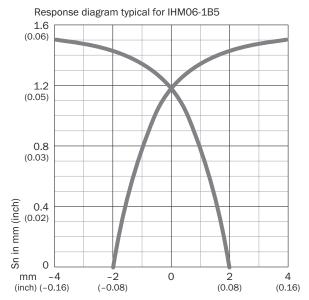




Connection diagram Cd-003



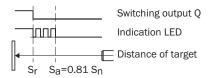
Response diagram



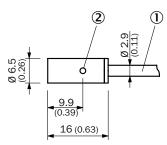
Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Functional principle Installation aid



Dimensional drawing IHM06, extremely short variant, flush, cable



Dimensions in mm (inch)

- ① Connection
- 2 function indicator

Recommended accessories

Other models and accessories → www.sick.com/IMM

	Brief description	Туре	part no.		
Mounting sys	Mounting systems				
	 Material: Plastic Details: Plastic (PA6) Items supplied: Without mounting hardware Usable for: Round sensors with 6.5 mm housing diameter without fixed stop 	BEF-KH-M06	2101067		
connectors a	nd cables				
	 Number of slots: 4 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Description: Unshielded 	Y8A34A2- C2A8000XXX	2115733		
P	 Number of slots: 4 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Cable: 5 m, 6-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation 	Y8A34A2- LXXXUAA050	2115727		
	 Number of slots: 6 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Description: Unshielded 	Y8A36A2- C2A8000XXX	2115734		
PIE	 Number of slots: 6 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Cable: 5 m, 8-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation 	Y8A36A2- LXXXUBA050	2115728		

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